Index to Volume 51

July-December, 1979

Author Index

AARABI B, LONG DM. Dynamics of cerebral edema. The role of an intact vascular bed in the production and propagation of vasogenic brain edema, 779

ABBOUD CF, LAWS ER JR. Clinical endocrinological approach to hypothalamic-pituitary disease, 271

ABOUL-NASR HT. *See* Fisher A, 856

ADAMS JE. *See* Fabinyi GCA, 556

ADAR R. Compensatory sweating after upper dorsal sympathectomy. Letter, 424

AL-MEFTY O. *See* Nugent GR, 812

ALBRIGHT L. Mannitol and head injury. Letter, 424

ALDAMA-LUEBBERT AE. *See* Hayman LA, 870

ALKSNE JF. Book review, 875

———. Vasospasms. Letter, 576

ALLEN G. *See* Saunders ML, 18

ALLEN GS. *See* Hirst LW, 402

ALLEN JC, NISSELBAUM J, EPSTEIN F, ROSEN G, SCHWARTZ MK. Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368

ALLEN VE. *See* Evans DC, 114

ALLO MD, SILVA J JR, KAUFFMAN CA, DICKS RE III. Enlarging histoplasmomas following treatment of meningitis due to *Histoplasma capsulatum*. Case report, 242

ALVIRA MM. *See* Shima T, 533

AMANO K. *See* Fankhauser H, 569

ANDERSON FM. Arachnoid cysts. Letter, 132

ANDREWS RJ, SPIEGEL PK. Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27

APUZZO MLJ, SHEIKH KMA, HEIDEN JS, WEISS MH, KURZE T. Definition of cellular immune responses to brain antigens in human head trauma, 317

ARITAKE K. *See* Saito I, 466

AUSMAN JI. *See* Diaz FG, 644

———. *See* Latchaw RE, 455

AVERY R. *See* Nashold BS Jr, 872

BAKER RS. Internuclear ophthalmoplegia following head injury. Case report, 552

BALAGURA S, FRANTZ AG, HOUSEPIAN EM, CARMEL PW. The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42

BATNITZKY S. *See* Morantz RA, 383

BECKER DP. *See* Gudeman SK, 301

BENJAMIN SP. *See* Tubbs RR, 94

BENOIST G, KAUSZ M, RÉTHELYI M, PÁSZTOR E. Sensitivy of the short-range spinal interneurons of the cat to experimental spinal cord trauma, 834

BERENDSEN W. *See* Gelderman PW, 785

BERG-JENSEN M. *See* Mørk SJ, 562

BIGNER DD. *See* Steinbok P, 581

BOGDUK N, LONG DM. The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain, 172

BOHMFALK GL, STORY JL, BROWN WE JR, MARLIN AE. Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628

———, ———, ———, ———. Subclavian steal syndrome. Part 2: Intraoperative vertebral artery blood flow measurement, 641

BØRGESEN SE, GJERRIS F, SØRENSEN SC. Cerebrospinal fluid conductance and compliance of the craniospinal space in normal-pressure hydrocephalus. A comparison between two methods for measuring conductance to outflow, 521

BOSSCHAERT T. *See* Ectors P, 375

BOWIE EJW. *See* Owen CA Jr, 137

BRATTON BR, KLINE DG, COLEMAN W, HUDSON AR. Experimental interfascicular nerve grafting, 323

BRAVO G. *See* Vaquero J, 718

———. *See* Hudson AR, 333

BRISMAN R. *See* Stern J, 147

BRITT RH. *See* Conley FK, 677

BROWN FD. Experimental cerebral missile injury. Letter, 726

———. Mannitol and head injury. Letter, 424

———. *See* Mullan S, 757

BROWN WE JR. *See* Bohmfalk GL, 628

———. *See* Bohmfalk GL, 641

BRUCE DA. Book review, 131

BRYAN CS, JERNIGAN FE. Posttraumatic meningitis due to ampicillin-resistant *Hemophilus influenzae*. Case report, 240

BUTLER AB. *See* Tyson GW, 408

CABEZUDO JM. *See* Vaquero J, 718

CAMPBELL RL. *See* DeSousa AL, 437

CARMEL PW. Book review, 724

———. *See* Balagura S, 42

CARRAS R. *See* Epstein JA, 362

CARSIN M. *See* Faivre J, 132

CHAMBERS AA. *See* Eggers F, 543

CHOU S. *See* Nugent GR, 812

CHOU SN. *See* Diaz FG, 644

CLARK WK. *See* Cooper PR, 307

———. *See* Neuwelt EA, 597

COAKHAM HB. *See* Kornblith PL, 47

COLEMAN W. *See* Bratton BR, 323

COLLEY PS. *See* Dunn RD Jr, 576

CONLEY FK, BRITT RH, HANBERY JH, SILVERBERG GD. Anterior fibular strut graft in neoplastic disease of the cervical spine, 677

COOK WA JR. *See* Mullen JB, 126

Index

Cooper IS. *See* Robertson LT, 510
Cooper PR, Moody S, Clark WK, Kirkpatrick J, Maravilla K, Gould AL, Drane W. Dexamethasone and severe head injury. A prospective double-blind study, 307
Correll JW. *See* Stern J, 147
Corrie WS. *See* Gerber AM, 539
Costa S. *See* Epstein JA, 362
Coulon RA Jr. *See* Weaver EN Jr, 254
Coxe WS. *See* Rothman SM, 237
Cushard WG Jr. *See* Gutin PH, 866

D'Avella D, Mingrino S. Microsurgical anatomy of lumbosacral spinal roots, 819
Davis R. *See* Levin VA, 526
de Juan M. *See* Vaquero J, 718
DeSousa AL, Kalsbeck JE, Mealey J Jr, Campbell RL, Hockey A. Intraspinal tumors in children. A review of 81 cases, 437
Delgado TE. Neurosurgical needs in Nicaragua. Letter, 878
DeVivo DC. *See* Rothman SM, 237
DiTullio MV Jr. Book review, 421
Diaz FG, Mastri AR, Ausman JI, Chou SN. Acute cerebral revascularization after regional cerebral ischemia in the dog. Part 2: Clinicopathological correlation, 644
Dicks RE III. *See* Allo MD, 242
Dohn DE. *See* Tubbs RR, 94
Dohn DF. Neurosurgery at the crossroads: leadership role of the American Association of Neurological Surgeons. The 1979 AANS presidential address, 429
Dolan EJ, Tator CH. A new method for testing the force of clips for aneurysm or experimental spinal cord compression, 229
Dolinskas CA. *See* Obrist WD, 292
Domingue J. *See* Wilson CB, 446
Doppman JL, Girton M, Popovsky MA. Acute occlusion of the posterior spinal vein. Experimental study in monkeys, 201
Dow RS. *See* Robertson LT, 510
Doyle TF. *See* Martins AN, 587
Drane W. *See* Cooper PR, 307
Dujovny M, Wakenhut N, Kossovsky N, Gomes CW, Laha RK, Leff L, Nelson D. Minimum vascular occlusive force, 662
Dunn RD Jr, Colley PS. Intracerebral hemorrhage and acute hypertension. Letter, 576
Dunsker SB. *See* Shima T, 533
Dyck P. Arachnoid cysts. Letter, 132
Dzenitis AJ. *See* Guarnaschelli JJ, 415

Eboh NN. Book review, 573
Ectors P, Bosschaert T, Vincent G, Franken L. Traumatic asphyxia: an unusual cause of traumatic coma and paraplegia. Case report, 375
Eggers F, Lukin R, Chambers AA, Tomsick TA, Sawaya R. Iatrogenic carotid-cavernous fistula following Fogarty catheter thromboendarterectomy. Case report, 543
Endo S, Koshu K, Suzuki J. Spontaneous regression of posterior fossa dural arteriovenous malformation, 715
Engel P. *See* Pheline C, 266
England AM. *See* Kepes JJ, 124
Epstein F. *See* Allen JC, 368
Epstein JA, Carras R, Hyman RA, Costa S. Cervical myelopathy caused by developmental stenosis of the spinal canal, 362
Epstein M. *See* George R, 804
Erickson TC. *See* Woolsey CN, 476
Ethier R. *See* Leblanc R, 765
Evans DC, Netsky MG, Allen VE, Kasantikul V. Empty sella secondary to suprasellar colloid cyst of foregut (respiratory) origin. Case report, 114
Evans DE. *See* Kobrine AI, 841
Evans RA. *See* Hayman LA, 870

Fabinyi GCA, Adams JE. High cervical spinal cord compression by an enterogenous cyst. Case report, 556
Fager CA. James L. Poppen, M.D., 1903–1978, 2
Faivre J, Vallee B, Carsin M. Intracavernous intercarotid artery with agenesis of the ICA. Letter, 132
Fankhauser H, Kamano S, Hanamura T, Amano K, Hatanaka H. Abnormal origin of the posterior inferior cerebellar artery. Case report, 569
Feindel W. *See* Soejima T, 188
Fink LH, Meriwether MW. Primary epidural Ewing's sarcoma presenting as a lumbar disc protrusion. Case report, 120
Fisher A, Aboul-Nasr HT. Delayed nonfatal pulmonary edema following subarachnoid hemorrhage. Case report, 856
Franken L. *See* Ectors P, 375
Frantz AG. *See* Balagura S, 42
Freeny PC. *See* Margolis MT, 107
Frenkel E. *See* Neuwelt EA, 597

Gambacorta D. *See* Reale F, 560
Garcia JH. Jack-o'-Lantern. Letter, 576
Gazendam J, Go KG, Van Zanten AK. Composition of isolated edema fluid in cold-induced brain edema, 70
———. *See* Go KG, 78
Gelderman PW, Berendsen W. Re-endothelialization of the microvascular carotid end-to-side anastomosis in the rat. A scanning electron microscopic study, 785
Gennarelli TA. *See* Obrist WD, 292
George R, Leibrock L, Epstein M. Long-term analysis of cerebrospinal fluid shunt infections. A 25-year experience, 804
Gerber AM, Corrie WS. Effect of impounder contact area on experimental spinal cord injury, 539
Gilson WE. *See* Woolsey CN, 476
Girton M. *See* Doppman JL, 201
Gjerris F. *See* Børgesen SE, 521
Glasberg M. *See* Neuwelt EA, 597
Go KG, Gazendam J, Van Zanten AK. Influence of hypoxia on the composition of isolated edema fluid in cold-induced brain edema, 78
———. See Gazendam J, 70
Godshall A. Award of merit. Letter, 876
Gomes CW. *See* Dujovny M, 662
Gould AL. *See* Cooper PR, 307
Griesmayr G. *See* Richling B, 654
Gross CE. Book review, 129
Guarnaschelli JJ, Wehry SM, Serratoni FT, Dzenitis AJ. Atypical fibrous histiocytoma of the thoracic spine. Case report, 415
Gücer G, Viernstein LJ. Intracranial pressure in the normal monkey while awake and asleep, 206
Gudeman SK, Miller JD, Becker DP. Failure of high-dose steroid therapy to influence intracranial pressure in patients with severe head injury, 301
Gutin PH, Cushard WG Jr, Wilson CB. Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866

Index

HAGEN AA. *See* White RP, 164
HAINES SJ. Randomized clinical trials in the evaluation of surgical innovation, 5
———, MAROON JC, JANNETTA PJ. Intracerebral hemorrhage and acute hypertension. Letter, 576
HAKUBA A, HUH CW, TSUJIKAWA S, NISHIMURA S. Total removal of a parasagittal meningioma of the posterior third of the sagittal sinus and its repair by autogenous vein graft. Case report, 379
HALONEN V. *See* Servo A, 211
HANAMURA T. *See* Fankhauser H, 569
HANBERY JH. *See* Conley FK, 677
HANIEH A. Chronic extradural hematoma and extradural aerocele. Case report, 118
HARADA Y. *See* Sakoda K, 397
HARRIS GJ, JAKOBIEC FA. Cavernous hemangioma of the orbit, 219
HATANAKA H. *See* Fankhauser H, 569
HAUGEN A. *See* Mørk SJ, 562
HAURI P. Book review, 574
HAYMAN LA, ALDAMA-LUEBBERT AE, EVANS RA. Intracranial diverticulum of the frontal sinus as a complication of frontal craniotomy. Case report, 870
HEIDEN JS. *See* Apuzzo MLJ, 317
HEIFETZ MD. Book review, 875
———. Counter-pressure microfork for intracranial vascular anastomosis. Technical note, 417
HEILBRUN MP. Book review, 263
HENDRICK EB. *See* Hoffman HJ, 796
HENRY JM. *See* Martins AN, 587
HEROS RC. Cerebellar infarction resulting from traumatic occlusion of a vertebral artery. Case report, 111
———. *See* Sekhar LN, 700
HERRERO J. *See* Vaquero J, 718
HIRAKAWA K. *See* Sakoda K, 397
HIRST LW, MILLER NR, ALLEN GS. Sphenoidal pneumosinus dilatans with bilateral optic nerve meningiomas. Case report, 402
HOCKEY A. *See* DeSousa AL, 437
HODGE CP. *See* Soejima T, 188
HOFFMAN HJ, HENDRICK EB. Early neurosurgical repair in craniofacial dysmorphism, 796
HOFFMAN WF, WILSON CB, TOWNSEND JJ. Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
HOLTZMAN RNN, PARISIER SC. Acute spontaneous otorrhagia resulting from a ruptured petrous carotid aneurysm. Case report, 258
HORI T. *See* Terao H, 546
HOSOBUCHI Y. Direct surgical treatment of giant intracranial aneurysms, 743
HOUSEPIAN EM. *See* Balagura S, 42
HUBBARD JH. *See* Jacobs GB, 860
HUDSON AR, HUNTER D, KLINE DG, BRATTON BR. Histological studies of experimental interfascicular graft repairs, 333
———. *See* Bratton BR, 323
HUH CW. *See* Hakuba A, 379
HUNTER D. *See* Hudson AR, 333
HYMAN RA. *See* Epstein JA, 362

IGNELZI RJ, NYQUIST JK. Excitability changes in peripheral nerve fibers after repetitive electrical stimulation. Implications in pain modulation, 824
INABA Y. *See* Ito U, 352
IRWIN L. *See* Levin VA, 526
ISHIKAWA S. *See* Sakoda K, 397
ISU T. *See* Nakagawa Y, 247
ITO U, INABA Y. Cerebrospinal fluid cytology after subarachnoid hemorrhage, 352

JACOBS GB, LEHRER JF, RUBIN RC, HUBBARD JH, NALEBUFF DJ, WILLE RL. Posttraumatic vertigo. Report of three cases, 860
JACQUES S. Book review, 421
JAKOBIEC FA. *See* Harris GJ, 219
JAMES AE JR. *See* Kasantikul V, 85
JANE JA. *See* Tyson GW, 408
JANNETTA PJ. *See* Haines SJ, 576
———. *See* Sheptak PE, 37
JERNIGAN FE. *See* Bryan CS, 240
JOHNSTON I. Direct surgical treatment of bilateral intracavernous internal carotid artery aneurysms. Case report, 98

KALIMO H. *See* Suneson A, 392
KALSBECK JE. *See* DeSousa AL, 437
KAMANO S. *See* Fankhauser H, 569
KASANTIKUL V, NETSKY MG, JAMES AE JR. Relation of age and cerebral ventricle size to central canal in man. Morphological analysis, 85
———. *See* Evans DC, 114
KAUFFMAN CA. *See* Allo MD, 242
KAUSZ M. *See* Benoist G, 834
KAWANAGA H. *See* Mullan S, 621
KELLER JT. *See* Shima T, 533
KELLER TS. Book review, 874
KENDRICK MM. *See* Margolis MT, 107
KENNEDY PR. New data on diastematomyelia, 355
KEPES JJ, MORANTZ RA, ENGLAND AM. Reticulin stain in differentiating astrocytomas from neurilemmomas on frozen sections. Technical note, 124
———. *See* Morantz RA, 383
KERBER CW. *See* Sekhar LN, 700
KIM KS. *See* Szper I, 565
KINDT GW. Book review, 874
KIRKPATRICK J. *See* Cooper PR, 307
KLINE DG. *See* Bratton BR, 323
———. *See* Hudson AR, 333
KOBAYASHI S. *See* Sugita K, 615
KOBRINE AI. Book review, 264
———, EVANS DE, RIZZOLI HV. Experimental acute balloon compression of the spinal cord. Factors affecting disappearance and return of the spinal evoked response, 841
KOKICH VG. *See* Mabbutt LW, 691
KORNBLITH PL, POLLOCK LA, COAKHAM HB, QUINDLEN EA, WOOD WC. Cytotoxic antibody responses in astrocytoma patients. An improved allogeneic assay, 47
KOSHU K. *See* Endo S, 715
KOSSOVSKY N. *See* Dujovny M, 662
KURZE T. *See* Apuzzo MLJ, 317
KUSSKE JA. *See* Louie JA, 852

LAHA RK. *See* Dujovny M, 662
LAMETSCHWANDTNER A. *See* Richling B, 654
LANG RGR, MOODY RA. Shunt infections. Letter, 876
LANGFITT TW. *See* Obrist WD, 292
LATCHAW RE, AUSMAN JI, LEE MC. Superficial temporal-middle cerebral artery bypass. A detailed analysis of multiple pre- and postoperative angiograms in 40 consecutive patients, 455
LAWNER PM, SIMEONE FA. Treatment of intraoperative middle

cerebral artery occlusion with pentobarbital and extracranial-intracranial bypass. Case report, 710
LAWS ER JR. *See* Abboud CF, 271
LEBLANC R, ETHIER R, LITTLE JR. Computerized tomography findings in arteriovenous malformations of the brain, 765
LEE MC. *See* Latchaw RE, 455
LEESTMA J. *See* Szper I, 565
LEFF L. *See* Dujovny M, 662
LEGUYADER B. *See* Pheline C, 266
LEHRER JF. *See* Jacobs GB, 860
LEIBROCK L. *See* George R, 804
LENHARDT ML. Excision of craniopharyngiomas. Letter, 577
LEUNDA G. *See* Vaquero J, 718
LEVIN HS. Book review, 129
LEVIN VA, WILSON CB, DAVIS R, WARA WM, PISCHER TL, IRWIN L. A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
LEVY LF. *See* Robertson LT, 510
LINDGREN S. Traumatology without knowledge of the trauma: diagnosis, scaling, and/or scoring? Letter, 423
LIPP JA. Experimental cerebral missile injury. Letter, 726
LIPPER S. *See* Steinbok P, 581
LITTLE JR. *See* Leblanc R, 765
LIVINGSTON KE, PERRIN RG. Management of spinal metastases. Letter, 877
LOESER JD. *See* Mabbutt LW, 691
LONG DM. Capillary ultrastructure in human metastatic brain tumors, 53
———. *See* Aarabi B, 779
———. *See* Bogduk N, 172
LOSSINSKY AS. Jack-o'-Lantern. Letter, 576
LOUIE JA, KUSSKE JA, RUSH JL, PRIBRAM HW. Actinomycotic subdural empyema. Case report, 852
LUKIN R. *See* Eggers F, 543

MABBUTT LW, KOKICH VG, MOFFETT BC, LOESER JD. Subtotal neonatal calvariectomy. A radiographic and histological evaluation of calvarial and sutural redevelopment in rabbits, 691
MAHALEY JL. *See* Steinbok P, 581
MAHALEY MS JR. *See* Steinbok P, 581
MARAVILLA K. *See* Cooper PR, 307
MARGOLIS MT, FREENY PC, KENDRICK MM. Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
MARKWALDER T-M. Meningioma of the third ventricle. Letter, 266
MARLIN AE. *See* Bohmfalk GL, 628, 641
MAROON JC. *See* Haines SJ, 576
MARTINS AN, SEVERANCE RE, HENRY JM, DOYLE TF. Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
MASTERSON BJ. *See* Morantz RA, 383
MASTRI AR. *See* Diaz FG, 644
MATSUTANI M. *See* Terao H, 546
MAYFIELD FH. *See* Shima T, 533
MCGILLICUDDY JE. Book review, 264
MEACHAM WF. Book review, 262
MEALEY J JR. *See* DeSousa AL, 437
MEIROWSKY AM. Book review, 262
MENCATTINI G. *See* Reale F, 560
MENDES M. *See* Winn HR, 685
MERIWETHER MW. *See* Fink LH, 120
MERRY GS, STUART G. Extradural hematoma in the neonate. Case report, 713
MEYER E. *See* Soejima T, 188
MILLER JD. *See* Gudeman SK, 301
———. *See* Saunders ML, 18
MILLER NR. *See* Hirst LW, 402
MINGRINO S. *See* D'Avella D, 819
MOFFETT BC. *See* Mabbutt LW, 691
MOODY RA. *See* Lang RGR, 876
———. *See* Nagao S, 669, 846
MOODY S. *See* Cooper PR, 307
MOORE P. *See* Winn HR, 685
MORANTZ RA. Book review, 130
———, KEPES JJ, BATNITZKY S, MASTERSON BJ. Extraspinal ependymomas. Report of three cases, 383
———. *See* Kepes JJ, 124
MORGAN HW. *See* Paullus WS Jr, 707
MØRK SJ, BERG-JENSEN M, HAUGEN A. Cerebellar gangliogliooma. Case report, 562
MULLAN JF. Book review, 128
MULLAN S, BROWN FD, PATRONAS NJ. Hyperemic and ischemic problems of surgical treatment of arteriovenous malformations, 757
———, KAWANAGA H, PATRONAS NJ. Microvascular embolization of cerebral arteriovenous malformations. A technical variation, 621
———. *See* Ozaki N, 773
MULLEN JB, COOK WA JR. Reduction of postoperative lumbar hemilaminectomy pain with Marcaine. Technical note, 126
———. *See* Nashold BS Jr, 872
MUTSUGA N. *See* Sugita K, 615

NAGAO S, ROCCAFORTE P, MOODY RA. Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
———, ———, ———. Acute intracranial hypertension and auditory brain-stem responses. Part 2: The effects of brain-stem movement on the auditory brain-stem responses due to transtentorial herniation, 846
NAKAGAWA Y, TASHIRO K, ISU T, TSURU M. Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
NALEBUFF DJ. *See* Jacobs GB, 860
NASHOLD BS JR, MULLEN JB, AVERY R. Peripheral nerve stimulation for pain relief using a multicontact electrode system. Technical note, 872
———, OSTDAHL RH. Dorsal root entry zone lesions for pain relief, 59
———, ———. Dorsal root entry zone lesions for pain relief. Letter, 727
NELSON D. *See* Dujovny M, 662
NELSON JS. *See* Rothman SM, 237
NETSKY MG. *See* Evans DC, 114
———. *See* Kasantikul V, 85
NEUWELT EA. Book review, 875
———, GLASBERG M, FRENKEL E, CLARK WK. Malignant pineal region tumors. A clinico-pathological study, 597
NISHIMURA S. *See* Hakuba A, 379
NISSELBAUM J. *See* Allen JC, 368
NORNES H, WIKEBY P. Results of microsurgical management of intracranial aneurysms, 608
NORWOOD CW. *See* Paullus WS Jr, 707
NOVA HR. Familial communicating hydrocephalus, posterior cerebellar agenesis, mega cisterna magna, and port-wine nevi. Report on five members of one family, 862
NUGENT GR, AL-MEFTY O, CHOU S. Communicating hydrocephalus as a cause of aqueductal stenosis, 812
NYQUIST JK. *See* Ignelzi RJ, 824

Index

OBRIST WD, GENNARELLI TA, SEGAWA H, DOLINSKAS CA, LANGFITT TW. Relation of cerebral blood flow to neurological status and outcome in head-injured patients, 292

OI S. *See* Szper I, 565

OKAZAKI H. *See* Sakoda K, 397

OKEDA R. *See* Terao H, 546

ONUMA T, SUZUKI J. Surgical treatment of giant intracranial aneurysms, 33

OSTDAHL RH. *See* Nashold BS Jr, 59

———. *See* Nashold BS Jr, 727

OWEN CA JR, BOWIE EJW. Surgical hemostasis, 137

OZAKI N, MULLAN S. Possible role of the erythrocyte in causing prolonged cerebral vasospasm, 773

PARISIER SC. *See* Holtzman RNN, 258

PARKINSON D, REDDY V, ROSS RT. Congenital anastomosis between the vertebral artery and internal carotid artery in the neck. Case report, 697

PÁSZTOR E. *See* Benoist G, 834

PATRONAS NJ. *See* Mullan S, 621

———. *See* Mullan S, 757

PAULLUS WS JR, NORWOOD CW, MORGAN HW. False aneurysm of the cavernous carotid artery and progressive external ophthalmoplegia after transsphenoidal hypophysectomy. Case report, 707

PERRIN RG. *See* Livingston KE, 877

PETER G. *See* Visconti EB, 245

———. *See* Visconti EB, 877

PHELINE C, ENGEL P, LEGUYADER B, TAMIC P. Meningioma of the third ventricle. Letter, 266

PIEPGRAS DG. *See* Sundt TM Jr, 731

PISCHER TL. *See* Levin VA, 526

POLLOCK LA. *See* Kornblith PL, 47

POPOVSKY MA. *See* Doppman JL, 201

PRIBRAM HW. *See* Louie JA, 852

PUNT J. Intradural and extradural ICA. Letter, 878

———. Some observations on aneurysms of the proximal internal carotid artery, 151

QUARTEY GRC. *See* Varughese G, 234

QUINDLEN EA. *See* Kornblith PL, 47

RANSOHOFF J. Book review, 263

REALE F, GAMBACORTA D, MENCATTINI G. Iliac crest fracture after removal of two bone plugs for anterior cervical fusion. Case report, 560

REDDY V. *See* Parkinson D, 697

RÉTHELYI M. *See* Benoist G, 834

RICHARDSON AE. *See* Vassilouthis J, 341

RICHARDSON PM, THOMAS PK. Percussive injury to peripheral nerve in rats, 178

RICHLING B, GRIESMAYR G, LAMETSCHWANDTNER A, SCHEIBLBRANDNER W. Endothelial lesions after temporary clipping. A comparative study, 654

RIZZOLI HV. *See* Kobrine AI, 841

ROBERTSON JT. *See* White RP, 164

ROBERTSON LT, DOW RS, COOPER IS, LEVY LF. Morphological changes associated with chronic cerebellar stimulation in the human, 510

ROCCAFORTE P. *See* Nagao S, 669

———. *See* Nagao S, 846

RODEHEAVER G. *See* Winn HR, 685

ROSEN G. *See* Allen JC, 368

ROSS RT. *See* Parkinson D, 697

ROTHMAN SM, NELSON JS, DEVIVO DC, COXE WS. Congenital astrocytoma presenting with intracerebral hematoma. Case report, 237

RUBIN RC. *See* Jacobs GB, 860

RUSH JL. *See* Louie JA, 852

SAITO I, SHIGENO T, ARITAKE K, TANISHIMA T, SANO K. Vasospasm assessed by angiography and computerized tomography, 466

SAKODA K, ISHIKAWA S, UOZUMI T, HIRAKAWA K, OKAZAKI H, HARADA Y. Sphenoethmoidal meningoencephalocele associated with agenesis of corpus callosum and median cleft lip and palate. Case report, 397

SANO K. *See* Saito I, 466

SAUNDERS ML, MILLER JD, STABLEIN D, ALLEN G. The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18

SAWAYA R. *See* Eggers F, 543

SCHEIBLBRANDNER W. *See* Richling B, 654

SCHWARTZ MK. *See* Allen JC, 368

SEGAWA H. *See* Obrist WD, 292

SEKHAR LN, HEROS RC, KERBER CW. Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700

SERRATONI FT. *See* Guarnaschelli JJ, 415

SERVO A, HALONEN V. Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211

SEVERANCE RE. *See* Martins AN, 587

SHAPIRO K. Excision of craniopharyngiomas. Letters, 577

SHEIKH KMA. *See* Apuzzo MLJ, 317

SHELDON CH. Book review, 421

SHEPTAK PE, JANNETTA PJ. The two-stage excision of huge acoustic neurinomas, 37

SHETTER AG, SWEET WH. Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12

SHIGENO T. *See* Saito I, 466

SHIH CJ. Compensatory sweating after upper dorsal sympathectomy. Letter, 425

SHIMA T, KELLER JT, ALVIRA MM, MAYFIELD FH, DUNSKER SB. Anterior cervical discectomy and interbody fusion. An experimental study using a synthetic tricalcium phosphate, 533

SHINTANI A. *See* Sugita K, 615

SILVA J JR. *See* Allo MD, 242

SILVERBERG GD. *See* Conley FK, 677

SIMEONE FA. *See* Lawner PM, 710

SMITH FP. Dorsal root entry zone lesions for pain relief. Letter, 726

SOEJIMA T, YAMAMOTO YL, MEYER E, FEINDEL W, HODGE CP. Protective effects of steroids on the cortico-microcirculation injured by cold, 188

SØRENSEN SC. *See* Børgesen SE, 521

SPIEGEL PK. *See* Andrews RJ, 27

STABLEIN D. *See* Saunders ML, 18

STAPLES GS. Intracavernous intercarotid artery with agenesis of the ICA. Letter, 132

STEINBOK P, MAHALEY MS JR, U R, ZINN DC, LIPPER S, MAHALEY JL, BIGNER DD. Synergism between BCNU and irradiation in the treatment of anaplastic gliomas. An *in vivo* study using the avian sarcoma virus-induced glioma model, 581

STERN J, WHELAN M, BRISMAN R, CORRELL JW. Management of extracranial carotid stenosis and intracranial aneurysms, 147

STORY JL. *See* Bohmfalk GL, 628, 641

STUART G. *See* Merry GS, 713
SUGITA K, KOBAYASHI S, SHINTANI A, MUTSUGA N. Microneurosurgery for aneurysms of the basilar artery, 615
SUNDT TM JR, PIEPGRAS DG. Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
SUNESON A, KALIMO H. Myelocystocele with cerebellar heterotopia. Case report, 392
SUZUKI J. *See* Endo S, 715
———. *See* Onuma T, 33
SWEET WH. *See* Shetter AG, 12
SZPER I, OI S, LEESTMA J, KIM KS, WETZEL NE. Xanthogranuloma of the third ventricle. Case report, 565

TAHMOURESIE A. Venous thrombosis. Letter, 266
TAMIC P. *See* Pheline C, 266
TANI E, YAMAGATA S. *In vitro* assay of contractile activities of spastic canine basilar artery and its surrounding blood clot, 155
TANISHIMA T. *See* Saito I, 466
TAPTAS J. Intradural and extradural ICA. Letter, 877
TASHIRO K. *See* Nakagawa Y, 247
TATOR CH. Book review, 421
———. *See* Dolan EJ, 229
TERAO H, HORI T, MATSUTANI M, OKEDA R. Detection of cryptic vascular malformations by computerized tomography. Report of two cases, 546
THOMAS PK. *See* Richardson PM, 178
TOMSICK TA. *See* Eggers F, 543
TOWNSEND JJ. *See* Hoffman WF, 103
TSUJIKAWA S. *See* Hakuba A, 379
TSURU M. *See* Nakagawa Y, 247
TUBBS RR, BENJAMIN SP, DOHN DE. Recurrent subarachnoid hemorrhage associated with aminocaproic acid therapy and acute renal artery thrombosis. Case report, 94
TYSON GW, WELSH JE, BUTLER AB, JANE JA, WINN HR. Primary cerebellar nocardiosis. Report of two cases, 408

U HS. *See* Wilson CB, 446
U R. *See* Steinbok P, 581
UOZUMI T. *See* Sakoda K, 397

VALLEE B. *See* Faivre J, 132
VAN BUREN JM. Book review, 723
VAN ZANTEN AK. *See* Gazendam J, 70
———. *See* Go KG, 78
VAQUERO J, LEUNDA G, CABEZUDO JM, DE JUAN M, HERRERO J, BRAVO G. Posterior fossa xanthogranuloma. Case report, 718
VARUGHESE G, QUARTEY GRC. Familial lumbar spinal stenosis with acute disc herniations. Case reports of four brothers, 234
VASSILOUTHIS J, RICHARDSON AE. Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
VIERNSTEIN LJ. *See* Gücer G, 206
VINCENT G. *See* Ectors P, 375
VISCONTI EB, PETER G. Shunt infections. Letter, 877
———, ———. Vancomycin treatment of cerebrospinal fluid shunt infections. Report of two cases, 245

WAGNER FC JR. Book reviews, 422, 572
WAKENHUT N. *See* Dujovny M, 662
WALKER AE. Book reviews, 573
WARA WM. *See* Levin VA, 526
WEAVER EN JR, COULON RA JR. Excision of a brain-stem epidermoid cyst. Case report, 254
WEHRY SM. *See* Guarnaschelli JJ, 415
WEISS MH. *See* Apuzzo MLJ, 317
WELSH JE. *See* Tyson GW, 408
WEST CGH. Spinal subarachnoid metastatic spread from non-neuraxial primary neoplasms. Case report, 251
WETZEL NE. *See* Szper I, 565
WHEELER C. *See* Winn HR, 685
WHELAN M. *See* Stern J, 147
WHITE RP, HAGEN AA, ROBERTSON JT. Effect of nonsteroid anti-inflammatory drugs on subarachnoid hemorrhage in dogs, 164
WIKEBY P. *See* RNES H, 608
WILKINSON HA. Management of spinal metastases. Letter, 877
WILLE RL. *See* Jacobs GB, 860
WILSON CB. *See* Gutin PH, 866
———. *See* Hoffman WF, 103
———. *See* Levin VA, 526
———, U HS, DOMINGUE J. Microsurgical treatment of intracranial vascular malformations, 446
WINN HR, MENDES M, MOORE P, WHEELER C, RODEHEAVER G. Production of experimental brain abscess in the rat, 685
———. *See* Tyson GW, 408
WIRTSCHAFTER JD. Crushing injury of the skull. Letter, 876
WOHNS RNW, WYLER AR. Prophylactic phenytoin in severe head injuries, 507
WOOD WC. *See* Kornblith PL, 47
WOOLSEY CN, ERICKSON TC, GILSON WE. Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
WYLER AR. *See* Wohns RNW, 507

YAMAGATA S. *See* Tani E, 155
YAMAMOTO YL. *See* Soejima T, 188

ZINN DC. *See* Steinbok P, 581

Index

Subject Index

Abscess
  Primary cerebellar nocardiosis. Report of two cases, 408
Acoustic nerve
  The two-stage excision of huge acoustic neurinomas, 37
Acoustic tumor
  The two-stage excision of huge acoustic neurinomas, 37
Acromegaly
  Clinical endocrinological approach to hypothalamic-pituitary disease, 271
  The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Actinomycosis
  Actinomycotic subdural empyema. Case report, 852
Acute brain injury
  The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18
Adenoma
  The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Aerocele
  Chronic extradural hematoma and extradural aerocele. Case report, 118
Alphafetoprotein
  Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368
American Association of Neurological Surgeons
  Neurosurgery at the crossroads: leadership role of the American Association of Neurological Surgeons. The 1979 AANS presidential address, 429
Amphotericin B
  Enlarging histoplasmomas following treatment of meningitis due to *Histoplasma capsulatum*. Case report, 242
Analgesia
  Excitability changes in peripheral nerve fibers after repetitive electrical stimulation. Implications in pain modulation, 824
Anastomosis
  Acute cerebral revascularization after regional cerebral ischemia in the dog. Part 2: Clinicopathological correlation, 644
  Counter-pressure microfork for intracranial vascular anastomosis. Technical note, 417
  Microsurgical anatomy of lumbosacral spinal roots, 819
  Re-endothelialization of the microvascular carotid end-to-side anastomosis in the rat. A scanning electron microscopic study, 785
  Superficial temporal-middle cerebral artery bypass. A detailed analysis of multiple pre- and postoperative angiograms in 40 consecutive patients, 455
Anatomy
  Intradural and extradural ICA. Letters, 878
Aneurysm
  Acute spontaneous otorrhagia resulting from a ruptured petrous carotid aneurysm. Case report, 258
  Congenital anastomosis between the vertebral artery and internal carotid artery in the neck. Case report, 697
  Direct surgical treatment of bilateral intracavernous internal carotid artery aneurysms. Case report, 98
  Direct surgical treatment of giant intracranial aneurysms, 743
  False aneurysm of the cavernous carotid artery and progressive external ophthalmoplegia after transsphenoidal hypophysectomy. Case report, 707
  Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27
  Management of extracranial carotid stenosis and intracranial aneurysms, 147
  Microneurosurgery for aneurysms of the basilar artery, 615
  A new method for testing the force of clips for aneurysm or experimental spinal cord compression, 229
  Recurrent subarachnoid hemorrhage associated with aminocaproic acid therapy and acute renal artery thrombosis. Case report, 94
  Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
  Results of microsurgical management of intracranial aneurysms, 608
  Some observations on aneurysms of the proximal internal carotid artery, 151
  Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
  Surgical treatment of giant intracranial aneurysms, 33
  Vasospasm assessed by angiography and computerized tomography, 466
  Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
Aneurysm clip
  Endothelial lesions after temporary clipping. A comparative study, 654
  Microneurosurgery for aneurysms of the basilar artery, 615
Aneurysmal thrombosis
  Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
Angiography
  Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27
  Protective effects of steroids on the cortico-microcirculation injured by cold, 188
  Superficial temporal-middle cerebral artery bypass. A detailed analysis of multiple pre- and postoperative angiograms in 40 consecutive patients, 455
  Vasospasm assessed by angiography and computerized tomography, 466
Antibiotic therapy
  Posttraumatic meningitis due to ampicillin-resistant *Hemophilus influenzae*. Case report, 240
  Vancomycin treatment of cerebrospinal fluid shunt infections. Report of two cases, 245
Apert's syndrome
  Early neurosurgical repair in craniofacial dysmorphism, 796
Aqueduct of Sylvius
  Communicating hydrocephalus as a cause of aqueductal stenosis, 812
Aqueductal stenosis
  Communicating hydrocephalus as a cause of aqueductal stenosis, 812
Arachnoid cyst
  Arachnoid cysts. Letters, 132
Arteriovenous fistula
  Iatrogenic carotid-cavernous fistula following Fogarty catheter thromboendarterectomy. Case report, 543

Arteriovenous malformation
Computerized tomography findings in arteriovenous malformations of the brain, 765
Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
Detection of cryptic vascular malformations by computerized tomography. Report of two cases, 546
Hyperemic and ischemic problems of surgical treatment of arteriovenous malformations, 757
Microsurgical treatment of intracranial vascular malformations, 446
Microvascular embolization of cerebral arteriovenous malformations. A technical variation, 621
Spontaneous regression of posterior fossa dural arteriovenous malformation, 715
Asphyxia
Traumatic asphyxia: an unusual cause of traumatic coma and paraplegia. Case report, 375
Astrocytoma
Congenital astrocytoma presenting with intracerebral hematoma. Case report, 237
Cytotoxic antibody responses in astrocytoma patients. An improved allogeneic assay, 47
Reticulin stain in differentiating astrocytomas from neurilemmomas on frozen sections. Technical note, 124
Autologous bone
Anterior cervical discectomy and interbody fusion. An experimental study using a synthetic tricalcium phosphate, 533
Axoplasmic transport
Sensitivity of the short-range spinal interneurons of the cat to experimental spinal cord trauma, 834

Balloon catheter
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
Basilar artery
In vitro assay of contractile activities of spastic canine basilar artery and its surrounding blood clot, 155
Microneurosurgery for aneurysms of the basilar artery, 615
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
BCNU chemotherapy
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Synergism between BCNU and irradiation in the treatment of anaplastic gliomas. An *in vivo* study using the avian sarcoma virus-induced glioma model, 581
Bleeding
Surgical hemostasis, 137
Blood flow velocity
Subclavian steal syndrome. Part 2: Intraoperative vertebral artery blood flow measurement, 641
Blood-brain barrier
Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
Bone graft
Iliac crest fracture after removal of two bone plugs for anterior cervical fusion. Case report, 560
Book reviews
Adeloye A. *Missile head injuries in Nigerian soldiers (with special study of tangential wounds)*, 262
Bechtereva NP. *The neurophysiological aspects of human mental activity, ed 2*, 129
Bell WE, McCormick WF (eds). *Increased intracranial pressure in children, ed 2. Major problems in clinical pediatrics, vol 8*, 874
Capesius P, Babin E. *Radiculosaccography with water-soluble contrast media*, 129
Dardik H (ed). *Graft materials in vascular surgery*, 875
Desmedt JE (ed). *Cerebral motor control in man: long loop mechanisms. Progress in clinical neurophysiology, vol 4*, 573
Desmedt JE (ed). *Physiological tremor, pathological tremors and clonus. Progress in clinical neurophysiology, vol 5*, 573
Fein JM, Reichman OH. *Microvascular anastomoses for cerebral ischemia*, 264
Ford DJ, Illari J, Schade JP. *Atlas of the human brain, ed 3*, 263
Guilleminault C, Dement WC (eds). *Sleep apnea syndromes*, 574
Hughes JT (ed). *Pathology of the spinal cord, ed 2*, 421
Lipton S (ed). *Persistent pain: modern methods of treatment, vol 1*, 421
Newton TH, Potts DG (eds). *Radiology of the skull and brain, vol 4. Ventricles and cisterns*, 262
O'Brien MS (ed). *Pediatric neurological surgery. Seminars in neurological surgery*, 131
Osterholm JL (ed). *The pathophysiology of spinal cord trauma. American lecture series No. 1015*, 572
Popp AJ, Bourke RS, Nelson LR, Kimelberg HK (eds). *Neural trauma. Seminars in neurological surgery*, 574
Rand RW *Microneurosurgery, ed 2*, 724
Sanford KK (ed). *Third decennial review conference: cell, tissue and organ culture. National Cancer Institute Monograph 48*, 130
Schmidek HH (ed). *Pineal tumors*, 875
Schoenberg BS (ed). *Neurological epidemiology: principles and clinical applications. Advances in neurology, vol 19*, 724
Seeger W. *Atlas of topographical anatomy of the brain and surrounding structures*, 723
Spinner M. *Injuries to the major branches of peripheral nerves of the forearm, ed 2*, 573
Szilka G, Bouvier G, Hori T, Petrov V. *Angiography of the human brain cortex. Atlas of vascular patterns and stereotactic cortical localization*, 875
Takahashi M. *Atlas of carotid angiography*, 128
Wackenheim A, Braun JP. *The veins of the posterior fossa. Normal and pathological findings*, 420
Walker AE. *Cerebral death*, 263
Weiss M (ed). *Early therapeutic social and vocational problems in the rehabilitation of persons with spinal cord injuries*, 265
Yamamura HI, Enna SJ, Kuhar MJ (eds). *Neurotransmitter receptor binding*, 264
Brachial plexus avulsion
Dorsal root entry zone lesions for pain relief, 59
Brain abscess
Production of experimental brain abscess in the rat, 685
Brain antigen
Definition of cellular immune responses to brain antigens in human head trauma, 317
Brain chemistry
Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12
Brain edema
Capillary ultrastructure in human metastatic brain tumors, 53
Composition of isolated edema fluid in cold-induced brain edema, 70
Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
Influence of hypoxia on the composition of isolated edema fluid in cold-induced brain edema, 78
Protective effects of steroids on the cortico-microcirculation injured by cold, 188
Brain infection
Actinomycotic subdural empyema. Case report, 852
Production of experimental brain abscess in the rat, 685

Index

Brain injury
The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18
Brain stem
Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
Acute intracranial hypertension and auditory brain-stem responses. Part 2: The effects of brain-stem movement on the auditory brain-stem responses due to transtentorial herniation, 846
Brain tumor, *see also* specific tumors
Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368
Capillary ultrastructure in human metastatic brain tumors, 53
Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211
Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Synergism between BCNU and irradiation in the treatment of anaplastic gliomas. An *in vivo* study using the avian sarcoma virus-induced glioma model, 581
Brain-stem abnormality
Internuclear ophthalmoplegia following head injury. Case report, 552
Brain-stem hemorrhage
The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18
Brain-stem tumor
Excision of a brain-stem epidermoid cyst. Case report, 254
Bucrylate
Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
B-waves
Cerebrospinal fluid conductance and compliance of the craniospinal space in normal-pressure hydrocephalus. A comparison between two methods for measuring conductance to outflow, 521
Bypass procedure. *See* Anastomosis

Calvariectomy
Subtotal neonatal calvariectomy. A radiographic and histological evaluation of calvarial and sutural redevelopment in rabbits, 691
Capillary
Capillary ultrastructure in human metastatic brain tumors, 53
Carotid artery
Acute spontaneous otorrhagia resulting from a ruptured petrous carotid aneurysm. Case report, 258
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Congenital anastomosis between the vertebral artery and internal carotid artery in the neck. Case report, 697
Intradural and extradural ICA. Letters, 878
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Carotid-cavernous fistula
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Iatrogenic carotid-cavernous fistula following Fogarty catheter thromboendarterectomy. Case report, 543
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Nase report, 247
Carotid occlusion
Acute spontaneous otorrhagia resulting from a ruptured petrous carotid aneurysm. Case report, 258
Management of extracranial carotid stenosis and intracranial aneurysms, 147
Cauda equina claudication
Familial lumbar spinal stenosis with acute disc herniations. Case reports of four brothers, 234
Cavernous angioma
Detection of cryptic vascular malformations by computerized tomography. Report of two cases, 546
Cavernous hemangioma
Cavernous hemangioma of the orbit, 219
Cavernous sinus
Direct surgical treatment of bilateral intracavernous internal carotid artery aneurysms. Case report, 98
Cell collecting device
Cerebrospinal fluid cytology after subarachnoid hemorrhage, 352
Central canal
Relation of age and cerebral ventricle size to central canal in man. Morphological analysis, 85
Cerebellar heterotopia
Myelocystocele with cerebellar heterotopia. Case report, 392
Cerebellar infarct
Cerebellar infarction resulting from traumatic occlusion of a vertebral artery. Case report, 111
Cerebellar stimulation
Morphological changes associated with chronic cerebellar stimulation in the human, 510
Cerebellum
Cerebellar infarction resulting from traumatic occlusion of a vertebral artery. Case report, 111
Cerebral artery
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Cerebral artery embolus
Jack-o'-Lantern. Letter, 576
Cerebral blood flow
The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18
Mannitol and head injury. Letters, 424
Protective effects of steroids on the cortico-microcirculation injured by cold, 188
Relation of cerebral blood flow to neurological status and outcome in head-injured patients, 292
Superficial temporal-middle cerebral artery bypass. A detailed analysis of multiple pre- and postoperative angiograms in 40 consecutive patients, 455
Cerebral hemorrhage
Congenital astrocytoma presenting with intracerebral hematoma. Case report, 237
Cerebrospinal fluid
Cerebrospinal fluid conductance and compliance of the craniospinal space in normal-pressure hydrocephalus. A comparison between two methods for measuring conductance to outflow, 521
Cerebrospinal fluid cytology after subarachnoid hemorrhage, 352
The effects of graded experimental trauma on cerebral blood flow and responsiveness to CO_2, 18
Spinal subarachnoid metastatic spread from non-neuraxial primary neoplasms. Case report, 251
Cerebrovascular steal
Hyperemic and ischemic problems of surgical treatment of arteriovenous malformations, 757

Cervical spine
Anterior cervical discectomy and interbody fusion. An experimental study using a synthetic tricalcium phosphate, 533
Cervical myelopathy caused by developmental stenosis of the spinal canal, 362
Chemistry
Composition of isolated edema fluid in cold-induced brain edema, 70
Influence of hypoxia on the composition of isolated edema fluid in cold-induced brain edema, 78
Childhood tumor
Intraspinal tumors in children. A review of 81 cases, 437
Chromophobe adenoma
The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Cleft lip
Sphenoethmoidal meningoencephalocele associated with agenesis of corpus callosum and median cleft lip and palate. Case report, 397
Cleft palate
Sphenoethmoidal meningoencephalocele associated with agenesis of corpus callosum and median cleft lip and palate. Case report, 397
Clinical trial
Dexamethasone and severe head injury. A prospective double-blind study, 307
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Randomized clinical trials in the evaluation of surgical innovation, 5
Clip
A new method for testing the force of clips for aneurysm or experimental spinal cord compression, 229
Endothelial lesions after temporary clipping. A comparative study, 654
Cold lesion
Dynamics of cerebral edema. The role of an intact vascular bed in the production and propagation of vasogenic brain edema, 779
Colloid cyst
Empty sella secondary to suprasellar colloid cyst of foregut (respiratory) origin. Case report, 114
Coma
Dexamethasone and severe head injury. A prospective double-blind study, 307
Relation of cerebral blood flow to neurological status and outcome in head-injured patients, 292
Traumatic asphyxia: an unusual cause of traumatic coma and paraplegia. Case report, 375
Coma scale
Traumatology without knowledge of the trauma: diagnosis, scaling, and/or scoring? Letter, 423
Compensatory sweating
Compensatory sweating after upper dorsal sympathectomy. Letters, 425
Computerized tomography
Arachnoid cysts. Letters, 132
Computerized tomography findings in arteriovenous malformations of the brain, 765
Detection of cryptic vascular malformations by computerized tomography. Report of two cases, 546
New data on diastematomyelia, 355
Primary cerebellar nocardiosis. Report of two cases, 408
Relation of cerebral blood flow to neurological status and outcome in head-injured patients, 292
Spinal subarachnoid metastatic spread from non-neuraxial primary neoplasms. Case report, 251
Vasospasm assessed by angiography and computerized tomography, 466
Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
Congenital abnormality
Myelocystocele with cerebellar heterotopia. Case report, 392
Congenital disorder
Familial lumbar spinal stenosis with acute disc herniations. Case reports of four brothers, 234
Contrast medium
Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211
Corpus callosum agenesis
Sphenoethmoidal meningoencephalocele associated with agenesis of corpus callosum and median cleft lip and palate. Case report, 397
Corticosteroid
Dexamethasone and severe head injury. A prospective double-blind study, 307
Counter-pressure fork
Counter-pressure microfork for intracranial vascular anastomosis. Technical note, 417
Craniopharyngioma
Excision of craniopharyngiomas. Letter, 577
Craniosynostosis
Subtotal neonatal calvariectomy. A radiographic and histological evaluation of calvarial and sutural redevelopment in rabbits, 691
Craniotomy complication
Intracranial diverticulum of the frontal sinus as a complication of frontal craniotomy. Case report, 870
Crouzon's syndrome
Early neurosurgical repair in craniofacial dysmorphism, 796
Cushing's syndrome
Clinical endocrinological approach to hypothalamic-pituitary disease, 271
Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866
Cyanoacrylate
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
Cytotoxicity
Cytotoxic antibody responses in astrocytoma patients. An improved allogeneic assay, 47
Deoxy-sugar
Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12
Developmental stenosis
Cervical myelopathy caused by developmental stenosis of the spinal canal, 362
Dexamethasone
Dexamethasone and severe head injury. A prospective double-blind study, 307
Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
Diastematomyelia
New data on diastematomyelia, 355
Diplomyelia
New data on diastematomyelia, 355
Disc herniation
Familial lumbar spinal stenosis with acute disc herniations. Case reports of four brothers, 234
Discectomy
Anterior cervical discectomy and interbody fusion. An experimental study using a synthetic tricalcium phosphate, 533

Iliac crest fracture after removal of two bone plugs for anterior cervical fusion. Case report, 560
Disseminated intravascular coagulation
Surgical hemostasis, 137
Dorsal root entry zone
Dorsal root entry zone lesions for pain relief, 59
Dorsal root entry zone lesions for pain relief. Letters, 726
Dorsal sympathectomy
Compensatory sweating after upper dorsal sympathectomy. Letters, 425
Dura mater
Some observations on aneurysms of the proximal internal carotid artery, 151
Dysplasia
Early neurosurgical repair in craniofacial dysmorphism, 796

Edema
Composition of isolated edema fluid in cold-induced brain edema, 70
Dynamics of cerebral edema. The role of an intact vascular bed in the production and propagation of vasogenic brain edema, 779
Influence of hypoxia on the composition of isolated edema fluid in cold-induced brain edema, 78
Electrolyte
Composition of isolated edema fluid in cold-induced brain edema, 70
Embolism
Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
Embolization
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
Microvascular embolization of cerebral arteriovenous malformations. A technical variation, 621
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
Embolizing aneurysm
Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
Empty sella
Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866
Empty sella secondary to suprasellar colloid cyst of foregut (respiratory) origin. Case report, 114
Encephalitis
Definition of cellular immune responses to brain antigens in human head trauma, 317
Endarterectomy
Iatrogenic carotid-cavernous fistula following Fogarty catheter thromboendarterectomy. Case report, 543
Endocrine disorder
Clinical endocrinological approach to hypothalamic-pituitary disease, 271
Endothelium
Re-endothelialization of the microvascular carotid end-to-side anastomosis in the rat. A scanning electron microscopic study, 785
Enterogenous cyst
High cervical spinal cord compression by an enterogenous cyst. Case report, 556
Enzyme
Composition of isolated edema fluid in cold-induced brain edema, 70
Ependyma
Relation of age and cerebral ventricle size to central canal in man. Morphological analysis, 85
Ependymoma
Extraspinal ependymomas. Report of three cases, 383
Epidermoid cyst
Excision of a brain-stem epidermoid cyst. Case report, 254
Epidural tumor
Primary epidural Ewing's sarcoma presenting as a lumbar disc protrusion. Case report, 120
Epilepsy
Computerized tomography findings in arteriovenous malformations of the brain, 765
Morphological changes associated with chronic cerebellar stimulation in the human, 510
Prophylactic phenytoin in severe head injuries, 507
Epineurial repair
Experimental interfascicular nerve grafting, 323
Histological studies of experimental interfascicular graft repairs, 333
Epsilon-aminocaproic acid
Recurrent subarachnoid hemorrhage associated with aminocaproic acid therapy and acute renal artery thrombosis. Case report, 94
Venous thrombosis. Letter, 266
Erythrocyte
Possible role of the erythrocyte in causing prolonged cerebral vasospasm, 773
Escherichia coli
Production of experimental brain abscess in the rat, 685
Evoked potential
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Ewing's sarcoma
Primary epidural Ewing's sarcoma presenting as a lumbar disc protrusion. Case report, 120
Extradural aerocele
Intracranial diverticulum of the frontal sinus as a complication of frontal craniotomy. Case report, 870
Extradural hematoma
Chronic extradural hematoma and extradural aerocele. Case report, 118
Extradural hematoma in the neonate. Case report, 713
Extraspinal tumor
Extraspinal ependymomas. Report of three cases, 383

Facet
The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain, 172
Facial nerve
The two-stage excision of huge acoustic neurinomas, 37
False aneurysm
False aneurysm of the cavernous carotid artery and progressive external ophthalmoplegia after transsphenoidal hypophysectomy. Case report, 707
Fascicular repair
Experimental interfascicular nerve grafting, 323
Histological studies of experimental interfascicular graft repairs, 333
Ferrous iron staining
Cerebrospinal fluid cytology after subarachnoid hemorrhage, 352
Fluorescein
Protective effects of steroids on the cortico-microcirculation injured by cold, 188

Foregut cyst
Empty sella secondary to suprasellar colloid cyst of foregut (respiratory) origin. Case report, 114

Ganglioglioma
Cerebellar ganglioglioma. Case report, 562
Ganglionectomy
Dorsal root entry zone lesions for pain relief. Letters, 726
Germ-cell tumor
Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368
Germinoma
Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368
Malignant pineal region tumors. A clinico-pathological study, 597
Giant aneurysm
Direct surgical treatment of giant intracranial aneurysms, 743
Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
Surgical treatment of giant intracranial aneurysms, 33
Glioblastoma multiforme
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Glioma
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Gonadotropin
Alphafetoprotein and human chorionic gonadotropin determination in cerebrospinal fluid. An aid to the diagnosis and management of intracranial germ-cell tumors, 368

Head injury
Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
Definition of cellular immune responses to brain antigens in human head trauma, 317
Dexamethasone and severe head injury. A prospective double-blind study, 307
Experimental cerebral missile injury. Letters, 726
Failure of high-dose steroid therapy to influence intracranial pressure in patients with severe head injury, 301
Internuclear ophthalmoplegia following head injury. Case report, 552
Mannitol and head injury. Letters, 424
Prophylactic phenytoin in severe head injuries, 507
Relation of cerebral blood flow to neurological status and outcome in head-injured patients, 292
Traumatology without knowledge of the trauma: diagnosis, scaling, and/or scoring? Letter, 423
Hearing
Posttraumatic vertigo. Report of three cases, 860
Hemangioma
Cavernous hemangioma of the orbit, 219
Hemophilia
Surgical hemostasis, 137
Hemophilus influenzae
Posttraumatic meningitis due to ampicillin-resistant *Hemophilus influenzae*. Case report, 240
Hemorrhage
Extradural hematoma in the neonate. Case report, 713
Hemostatic defect
Surgical hemostasis, 137
Herniation
Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
High-dose steroid therapy
Failure of high-dose steroid therapy to influence intracranial pressure in patients with severe head injury, 301
Histiocytoma
Atypical fibrous histiocytoma of the thoracic spine. Case report, 415
Histoplasma capsulatum
Enlarging histoplasmomas following treatment of meningitis due to *Histoplasma capsulatum*. Case report, 242
Histoplasmoma
Enlarging histoplasmomas following treatment of meningitis due to *Histoplasma capsulatum*. Case report, 242
Horseradish peroxidase
Sensitivity of the short-range spinal interneurons of the cat to experimental spinal cord trauma, 834
Hydrocephalus
Communicating hydrocephalus as a cause of aqueductal stenosis, 812
Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211
Early neurosurgical repair in craniofacial dysmorphism, 796
Familial communicating hydrocephalus, posterior cerebellar agenesis, mega cisterna magna, and port-wine nevi. Report on five members of one family, 862
Long-term analysis of cerebrospinal fluid shunt infections. A 25-year experience, 804
Relation of age and cerebral ventricle size to central canal in man. Morphological analysis, 85
Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
Hydroxyurea
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Hyperemia
Hyperemic and ischemic problems of surgical treatment of arteriovenous malformations, 757
Hyperhidrosis
Compensatory sweating after upper dorsal sympathectomy. Letters, 425
Hypertension
Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
Intracerebral hemorrhage and acute hypertension. Letters, 576
Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27
Hypophysectomy
False aneurysm of the cavernous carotid artery and progressive external ophthalmoplegia after transsphenoidal hypophysectomy. Case report, 707
Hypopituitarism
Clinical endocrinological approach to hypothalamic-pituitary disease, 271
Hypotension
Results of microsurgical management of intracranial aneurysms, 608

Index

Hypothalamus
Clinical endocrinological approach to hypothalamic-pituitary disease, 271
Hypothermia
Direct surgical treatment of giant intracranial aneurysms, 743
Results of microsurgical management of intracranial aneurysms, 608
Hypoxia
Influence of hypoxia on the composition of isolated edema fluid in cold-induced brain edema, 78

Immunology
Cytotoxic antibody responses in astrocytoma patients. An improved allogeneic assay, 47
Definition of cellular immune responses to brain antigens in human head trauma, 317
Infarction
Vasospasm assessed by angiography and computerized tomography, 466
Instrumentation
Counter-pressure microfork for intracranial vascular anastomosis. Technical note, 417
Internal artery vascular occlusion
Acute cerebral revascularization after regional cerebral ischemia in the dog. Part 2: Clinicopathological correlation, 644
Internal carotid artery
Direct surgical treatment of bilateral intracavernous internal carotid artery aneurysms. Case report, 98
Intracavernous intercarotid artery with agenesis of the ICA. Letters, 132
Some observations on aneurysms of the proximal internal carotid artery, 151
Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
Intervertebral disc
Primary epidural Ewing's sarcoma presenting as a lumbar disc protrusion. Case report, 120
Reduction of postoperative lumbar hemilaminectomy pain with Marcaine. Technical note, 126
Intracavernous anomaly
Intracavernous intercarotid artery with agenesis of the ICA. Letters, 132
Intracerebral hematoma
Detection of cryptic vascular malformations by computerized tomography. Report of two cases, 546
Microsurgical treatment of intracranial vascular malformations, 446
Intracerebral hemorrhage
Intracerebral hemorrhage and acute hypertension. Letters, 576
Intracranial hypertension
Acute intracranial hypertension and auditory brain-stem responses. Part 2: The effects of brain-stem movement on the auditory brain-stem responses due to transtentorial herniation, 846
Intracranial pressure
Cerebrospinal fluid conductance and compliance of the craniospinal space in normal-pressure hydrocephalus. A comparison between two methods for measuring conductance to outflow, 521
Communicating hydrocephalus as a cause of aqueductal stenosis, 812
Dexamethasone and severe head injury. A prospective double-blind study, 307
Failure of high-dose steroid therapy to influence intracranial pressure in patients with severe head injury, 301
Intracranial pressure in the normal monkey while awake and asleep, 206

Intramedullary astrocytoma
Intraspinal tumors in children. A review of 81 cases, 437
Intraspinal tumor
Intraspinal tumors in children. A review of 81 cases, 437
Intraventricular tumor
Xanthogranuloma of the third ventricle. Case report, 565
Ischemia
Hyperemic and ischemic problems of surgical treatment of arteriovenous malformations, 757
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Superficial temporal-middle cerebral artery bypass. A detailed analysis of multiple pre- and postoperative angiograms in 40 consecutive patients, 455

Journal of Neurosurgery
Award of merit. Letter, 876

Kleebattschadel
Early neurosurgical repair in craniofacial dysmorphism, 796

Leukocyte
Definition of cellular immune responses to brain antigens in human head trauma, 317
Low-back pain
The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain, 172
Lumbar disc. *See* Intervertebral disc
Lumbosacral bands
New data on diastematomyelia, 355
Lyophilized blood clot
In vitro assay of contractile activities of spastic canine basilar artery and its surrounding blood clot, 155
Lyophilized spastic artery
In vitro assay of contractile activities of spastic canine basilar artery and its surrounding blood clot, 155
Lysed red cell
Possible role of the erythrocyte in causing prolonged cerebral vasospasm, 773

Mannitol
Experimental cerebral missile injury. Letters, 726
Mannitol and head injury. Letters, 424
Meningioma
Meningioma of the third ventricle. Letters, 266
Total removal of a parasagittal meningioma of the posterior third of the sagittal sinus and its repair by autogenous vein graft. Case report, 379
Meningitis
Long-term analysis of cerebrospinal fluid shunt infections. A 25-year experience, 804
Posttraumatic meningitis due to ampicillin-resistant *Hemophilus influenzae*. Case report, 240
Meningocele
Myelocystocele with cerebellar heterotopia. Case report, 392

Metastasis
Capillary ultrastructure in human metastatic brain tumors, 53
Malignant pineal region tumors. A clinico-pathological study, 597
Management of spinal metastases. Letters, 877
Metrizamide
Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211
Microsurgery
Microneurosurgery for aneurysms of the basilar artery, 615
Minimum vascular occlusive force, 662
Results of microsurgical management of intracranial aneurysms, 608
Microvascular surgery
Counter-pressure microfork for intracranial vascular anastomosis. Technical note, 417
Middle cerebral artery
Acute cerebral revascularization after regional cerebral ischemia in the dog. Part 2: Clinicopathological correlation, 644
Surgical approach to giant intracranial aneurysms. Operative experience with 80 cases, 731
Treatment of intraoperative middle cerebral artery occlusion with pentobarbital and extracranial-intracranial bypass. Case report, 710
Motor cortex
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Multiple aneurysms
Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27
Some observations on aneurysms of the proximal internal carotid artery, 151
Myelin
Percussive injury to peripheral nerve in rats, 178
Myelocystocele
Myelocystocele with cerebellar heterotopia. Case report, 392
Myelopathy
Cervical myelopathy caused by developmental stenosis of the spinal canal, 362

Neonate
Extradural hematoma in the neonate. Case report, 713
Nerve compression
Percussive injury to peripheral nerve in rats, 178
Nerve degeneration
Percussive injury to peripheral nerve in rats, 178
Nerve graft
Experimental interfascicular nerve grafting, 323
Histological studies of experimental interfascicular graft repairs, 333
Nerve regeneration
Experimental interfascicular nerve grafting, 323
Nerve root
Microsurgical anatomy of lumbosacral spinal roots, 819
Nerve stimulation
Peripheral nerve stimulation for pain relief using a multicontact electrode system. Technical note, 872
Nerve suture
Histological studies of experimental interfascicular graft repairs, 333
Neurilemmoma
Reticulin stain in differentiating astrocytomas from neurilemmomas on frozen sections. Technical note, 124
Neurological education
Neurosurgery at the crossroads: leadership role of the American Association of Neurological Surgeons. The 1979 AANS presidential address, 429
Neuronal tumor
Cerebellar ganglioglioma. Case report, 562
Neuroprosthesis
Morphological changes associated with chronic cerebellar stimulation in the human, 510
Neurosurgical needs
Neurosurgical needs in Nicaragua. Letter, 878
Nicaragua
Neurosurgical needs in Nicaragua. Letter, 878
Nocardiosis
Primary cerebellar nocardiosis. Report of two cases, 408

Obituary
James L. Poppen, M.D., 1903–1978, 2
Occipital artery
Spontaneous regression of posterior fossa dural arteriovenous malformation, 715
Ophthalmic artery
Some observations on aneurysms of the proximal internal carotid artery, 151
Ophthalmoplegia
False aneurysm of the cavernous carotid artery and progressive external ophthalmoplegia after transsphenoidal hypophysectomy. Case report, 707
Internuclear ophthalmoplegia following head injury. Case report, 552
Optic foramen
Sphenoidal pneumosinus dilatans with bilateral optic nerve meningiomas. Case report, 402
Optic nerve meningioma
Sphenoidal pneumosinus dilatans with bilateral optic nerve meningiomas. Case report, 402
Orbital tumor
Cavernous hemangioma of the orbit, 219

Pain
The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain, 172
Dorsal root entry zone lesions for pain relief, 59
Dorsal root entry zone lesions for pain relief. Letters, 726
Excitability changes in peripheral nerve fibers after repetitive electrical stimulation. Implications in pain modulation, 824
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Peripheral nerve stimulation for pain relief using a multicontact electrode system. Technical note, 872
Reduction of postoperative lumbar hemilaminectomy pain with Marcaine. Technical note, 126
Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12
Pain mechanism
Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12
Paraplegia
Atypical fibrous histiocytoma of the thoracic spine. Case report, 415
Traumatic asphyxia: an unusual cause of traumatic coma and paraplegia. Case report, 375
Paresthesia
Localization in somatic sensory and motor areas of human

cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Pentobarbital
Treatment of intraoperative middle cerebral artery occlusion with pentobarbital and extracranial-intracranial bypass. Case report, 710
Periosteum
Subtotal neonatal calvariectomy. A radiographic and histological evaluation of calvarial and sutural redevelopment in rabbits, 691
Peripheral nerve
Excitability changes in peripheral nerve fibers after repetitive electrical stimulation. Implications in pain modulation, 824
Percussive injury to peripheral nerve in rats, 178
Peripheral nerve stimulation for pain relief using a multicontact electrode system. Technical note, 872
Phantom limb pain
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Phenytoin
Prophylactic phenytoin in severe head injuries, 507
Pineal tumor
Malignant pineal region tumors. A clinico-pathological study, 597
Pineoblastoma
Malignant pineal region tumors. A clinico-pathological study, 597
Pineocytoma
Malignant pineal region tumors. A clinico-pathological study, 597
Pituitary apoplexy
Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866
Pituitary gland
Clinical endocrinological approach to hypothalamic-pituitary disease, 271
The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Pituitary tumor
Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866
The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Plateau waves
Intracranial pressure in the normal monkey while awake and asleep, 206
Pneumosinus dilatans
Sphenoidal pneumosinus dilatans with bilateral optic nerve meningiomas. Case report, 402
Poppen, James L, M.D.
James L. Poppen, M.D., 1903–1978, 2
Posterior communicating artery
Microneurosurgery for aneurysms of the basilar artery, 615
Posterior fossa tumor
Posterior fossa xanthogranuloma. Case report, 718
Posterior inferior cerebellar artery
Abnormal origin of the posterior inferior cerebellar artery. Case report, 569
Posterior spinal vein
Acute occlusion of the posterior spinal vein. Experimental study in monkeys, 201
Presacral tumor
Extraspinal ependymomas. Report of three cases, 383
Prolactin
The specificity of serum prolactin as a diagnostic indicator of pituitary adenoma, 42
Proptosis
Cavernous hemangioma of the orbit, 219
Prostaglandin synthetase inhibitor
Effect of nonsteroid anti-inflammatory drugs on subarachnoid hemorrhage in dogs, 164
Protein
Composition of isolated edema fluid in cold-induced brain edema, 70
Pulmonary edema
Delayed nonfatal pulmonary edema following subarachnoid hemorrhage. Case report, 856
Radiation injury
Experimental delayed radiation necrosis of the brain. Part 1: Effect of early dexamethasone treatment, 587
Radiation therapy
A Phase III comparison of BCNU, hydroxyurea, and radiation therapy to BCNU and radiation therapy for treatment of primary malignant gliomas, 526
Radiotherapy
Synergism between BCNU and irradiation in the treatment of anaplastic gliomas. An *in vivo* study using the avian sarcoma virus-induced glioma model, 581
Randomization
Randomized clinical trials in the evaluation of surgical innovation, 5
Renal artery
Recurrent subarachnoid hemorrhage associated with aminocaproic acid therapy and acute renal artery thrombosis. Case report, 94
Research design
Randomized clinical trials in the evaluation of surgical innovation, 5
Respiratory cyst
Empty sella secondary to suprasellar colloid cyst of foregut (respiratory) origin. Case report, 114
Reticulin stain
Reticulin stain in differentiating astrocytomas from neurilemmomas on frozen sections. Technical note, 124
Revascularization
Acute cerebral revascularization after regional cerebral ischemia in the dog. Part 2: Clinicopathological correlation, 644
Rhizotomy
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Dorsal root entry zone lesions for pain relief, 59
Microsurgical anatomy of lumbosacral spinal roots, 819
Sagittal sinus
Total removal of a parasagittal meningioma of the posterior third of the sagittal sinus and its repair by autogenous vein graft. Case report, 379
Sciatic nerve
Percussive injury to peripheral nerve in rats, 178
Sella turcica
Cushing's disease with pituitary apoplexy leading to hypopituitarism, empty sella, and spontaneous fracture of the dorsum sellae. Case report, 866
Sensorimotor area
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476

Sensory area
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Shunt
Arachnoid cysts. Letters, 132
Long-term analysis of cerebrospinal fluid shunt infections. A 25-year experience, 804
Shunt infection
Shunt infections. Letters, 877
Vancomycin treatment of cerebrospinal fluid shunt infections. Report of two cases, 245
Skull fracture
Chronic extradural hematoma and extradural aerocele. Case report, 118
Crushing injury of the skull. Letter, 876
Posttraumatic meningitis due to ampicillin-resistant *Hemophilus influenzae*. Case report, 240
Sleep
Intracranial pressure in the normal monkey while awake and asleep, 206
Somatosensory evoked response
Acute intracranial hypertension and auditory brain-stem responses. Part 1: Changes in the auditory brain-stem and somatosensory evoked responses in intracranial hypertension in cats, 669
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Sphenoethmoidal meningoencephalocele
Sphenoethmoidal meningoencephalocele associated with agenesis of corpus callosum and median cleft lip and palate. Case report, 397
Sphenoid sinus
Sphenoidal pneumosinus dilatans with bilateral optic nerve meningiomas. Case report, 402
Sphenoid wing meningioma
Treatment of intraoperative middle cerebral artery occlusion with pentobarbital and extracranial-intracranial bypass. Case report, 710
Spinal cord
Cyanoacrylate occlusion of a spinal cord arteriovenous malformation. Case report, 107
High cervical spinal cord compression by an enterogenous cyst. Case report, 556
Microsurgical anatomy of lumbosacral spinal roots, 819
Myelocystocele with cerebellar heterotopia. Case report, 392
Relation of age and cerebral ventricle size to central canal in man. Morphological analysis, 85
Traumatic asphyxia: an unusual cause of traumatic coma and paraplegia. Case report, 375
Spinal cord blood flow
Experimental acute balloon compression of the spinal cord. Factors affecting disappearance and return of the spinal evoked response, 841
Spinal cord compression
Anterior fibular strut graft in neoplastic disease of the cervical spine, 677
Experimental acute balloon compression of the spinal cord. Factors affecting disappearance and return of the spinal evoked response, 841
Spinal subarachnoid metastatic spread from non-neuraxial primary neoplasms. Case report, 251
Spinal cord injury
Abnormal origin of the posterior inferior cerebellar artery. Case report, 569
Effect of impounder contact area on experimental spinal cord injury, 539
Experimental acute balloon compression of the spinal cord. Factors affecting disappearance and return of the spinal evoked response, 841
Sensitivity of the short-range spinal interneurons of the cat to experimental spinal cord trauma, 834
Spinal cord tumor
Anterior fibular strut graft in neoplastic disease of the cervical spine, 677
Intraspinal tumors in children. A review of 81 cases, 437
Spinal subarachnoid metastatic spread from non-neuraxial primary neoplasms. Case report, 251
Spinal cord vein
Acute occlusion of the posterior spinal vein. Experimental study in monkeys, 201
Spinal evoked response
Experimental acute balloon compression of the spinal cord. Factors affecting disappearance and return of the spinal evoked response, 841
Spinal fusion
Iliac crest fracture after removal of two bone plugs for anterior cervical fusion. Case report, 560
Spinal graft
Anterior fibular strut graft in neoplastic disease of the cervical spine, 677
Spinal interneurons
Sensitivity of the short-range spinal interneurons of the cat to experimental spinal cord trauma, 834
Spinal metastasis
Management of spinal metastases. Letters, 877
Spinal nerve
Microsurgical anatomy of lumbosacral spinal roots, 819
Spinal stenosis
Cervical myelopathy caused by developmental stenosis of the spinal canal, 362
Familial lumbar spinal stenosis with acute disc herniations. Case reports of four brothers, 234
STA-MCA anastomosis. *See* Anastomosis
Staphylococcus aureus
Production of experimental brain abscess in the rat, 685
Staphylococcus epidermidis
Vancomycin treatment of cerebrospinal fluid shunt infections. Report of two cases, 245
Steroid
Protective effects of steroids on the cortico-microcirculation injured by cold, 188
Subarachnoid hemorrhage
Cerebrospinal fluid cytology after subarachnoid hemorrhage, 352
Delayed nonfatal pulmonary edema following subarachnoid hemorrhage. Case report, 856
Direct surgical treatment of giant intracranial aneurysms, 743
Effect of nonsteroid anti-inflammatory drugs on subarachnoid hemorrhage in dogs, 164
Intracranial aneurysms. Age, sex, blood pressure, and multiplicity in an unselected series of patients, 27
Management of extracranial carotid stenosis and intracranial aneurysms, 147
Microsurgical treatment of intracranial vascular malformations, 446
Possible role of the erythrocyte in causing prolonged cerebral vasospasm, 773
Recurrent subarachnoid hemorrhage associated with aminocaproic acid therapy and acute renal artery thrombosis. Case report, 94
Some observations on aneurysms of the proximal internal carotid artery, 151
Vasospasm assessed by angiography and computerized tomography, 466
Vasospasms. Letter, 576
Venous thrombosis. Letter, 266
Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
Subclavian artery
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628

Index

Subclavian steal syndrome. Part 2: Intraoperative vertebral artery blood flow measurement, 641
Subclavian steal syndrome
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Subclavian steal syndrome. Part 2: Intraoperative vertebral artery blood flow measurement, 641
Subdural empyema
Actinomycotic subdural empyema. Case report, 852
Substantia gelatinosa
Dorsal root entry zone lesions for pain relief, 59
Supplementary motor area
Localization in somatic sensory and motor areas of human cerebral cortex as determined by direct recording of evoked potentials and electrical stimulation, 476
Supraorbital ridge
Early neurosurgical repair in craniofacial dysmorphism, 796
Surgical technique
Surgical treatment of giant intracranial aneurysms, 33
The two-stage excision of huge acoustic neurinomas, 37

Temporal bone
Acute spontaneous otorrhagia resulting from a ruptured petrous carotid aneurysm. Case report, 258
Third ventricle
Meningioma of the third ventricle. Letters, 266
Xanthogranuloma of the third ventricle. Case report, 565
Thoracic spine
Atypical fibrous histiocytoma of the thoracic spine. Case report, 415
Thrombosis
Direct surgical treatment of giant intracranial aneurysms, 743
Tissue culture
Cytotoxic antibody responses in astrocytoma patients. An improved allogeneic assay, 47
Transient ischemia
Recurrent transient ischemic attacks secondary to an embolizing saccular middle cerebral artery aneurysm. Case report, 103
Transtentorial herniation
Acute intracranial hypertension and auditory brain-stem responses. Part 2: The effects of brain-stem movement on the auditory brain-stem responses due to transtentorial herniation, 846
Traumatology
Traumatology without knowledge of the trauma: diagnosis, scaling, and/or scoring? Letter, 423
Trigeminal nerve
Relative cerebral glucose metabolism evoked by dental-pulp stimulation in the rat, 12
Trigeminal neuralgia
Carotid-cavernous fistula following percutaneous retrogasserian procedures. Report of two cases, 700
Occlusion of cerebral artery due to metastasis of chorioepithelioma. Case report, 247
Tumor marker
Malignant pineal region tumors. A clinico-pathological study, 597
Two-stage excision
The two-stage excision of huge acoustic neurinomas, 37

Vancomycin
Vancomycin treatment of cerebrospinal fluid shunt infections. Report of two cases, 245
Vascular clip
Endothelial lesions after temporary clipping. A comparative study, 654
Minimum vascular occlusive force, 662
Vascular malformation
Microsurgical treatment of intracranial vascular malformations, 446
Vasospasm
Effect of nonsteroid anti-inflammatory drugs on subarachnoid hemorrhage in dogs, 164
In vitro assay of contractile activities of spastic canine basilar artery and its surrounding blood clot, 155
Possible role of the erythrocyte in causing prolonged cerebral vasospasm, 773
Vasospasm assessed by angiography and computerized tomography, 466
Vasospasms. Letter, 576
Vein graft
Total removal of a parasagittal meningioma of the posterior third of the sagittal sinus and its repair by autogenous vein graft. Case report, 379
Venous thrombosis
Venous thrombosis. Letter, 266
Ventricular dilatation
Ventricular dilatation and communicating hydrocephalus following spontaneous subarachnoid hemorrhage, 341
Ventriculography
Double-contrast ventriculography with oxygen and water-soluble positive contrast medium, metrizamide (Amipaque), 211
Vertebral artery
Abnormal origin of the posterior inferior cerebellar artery. Case report, 569
Cerebellar infarction resulting from traumatic occlusion of a vertebral artery. Case report, 111
Congenital anastomosis between the vertebral artery and internal carotid artery in the neck. Case report, 697
Subclavian steal syndrome. Part 1: Proximal vertebral to common carotid artery transposition in three patients, and historical review, 628
Subclavian steal syndrome. Part 2: Intraoperative vertebral artery blood flow measurement, 641
Vertebral occlusion
Cerebellar infarction resulting from traumatic occlusion of a vertebral artery. Case report, 111
Vertigo
Posttraumatic vertigo. Report of three cases, 860
Virus-induced glioma
Synergism between BCNU and irradiation in the treatment of anaplastic gliomas. An *in vivo* study using the avian sarcoma virus-induced glioma model, 581
Vitamin K deficiency
Surgical hemostasis, 137
Volume pressure response
Failure of high-dose steroid therapy to influence intracranial pressure in patients with severe head injury, 301

Xanthogranuloma
Posterior fossa xanthogranuloma. Case report, 718
Xanthogranuloma of the third ventricle. Case report, 565
Xanthoma
Posterior fossa xanthogranuloma. Case report, 718
Xanthogranuloma of the third ventricle. Case report, 565

Zygapophyseal joint
The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain, 172